| 10/56/05 (03-01) |
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| OMB 0651-0032 |
| ONE 0001-0002 |

| Please type a plus sign (+) inside this box — | + | | 0 : | S Pat | ent and | | | | PTO/SB/05 (03-01 ough 10/31/2002. OMB 0651-003 DEPARTMENT OF COMMERCE |
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| Under the Paperwork Reduction Act of 1995, | , no persons are rec | 1 | spond | to a co | ellection | of info | rmation u | ınless it d | |
| UTILITY | | Attorne | | | | | 36/394 | 173 | |
| PATENT APPLICA | TION | First Ir | rvento | or | Dong | eta | <i>31.</i> | | |
| TRANSMITTAL | - | Title | | THO VICE | | IAM | NUFA | CTURI | NG FLASH MEMORY |
| (Only for new nonprovisional applications unde | er 37 CFR 1.53(b)) | Expres | ss Mai | il Lab | el No. | E | | | 513 US |
| APPLICATION ELE | MENTS | | | 4.5 | 555 | | | | Patent Application Sioner for Patents |
| See MPEP chapter 600 concerning utility pa | atent application co | ontents. | | AD | DRES | SS 1 | O: P | O. Box | |
| X Fee Transmittal Form (e.g., PTO/S (Submit an original, and a duplicate for fee p. Applicant claims small entity status See 37 CFR 1.27. X Specification [INCLUDING: | processing) | 9] | 1 | Nucle (if ap | Comput eotide a pplicable Comp pecificati | er Prond/or And/or And/or And/or And/or And/or Andrews | ogram (A Amino A ecessar) Readable equence ROM or | ppendix) cid Sequ r) Form (C Listing or | ence Submission |
| | | | | | ACCC | MPA | ANYING | APPLI | CATIONS PARTS |
| | (Total Pages (Py) (37 CFR 1.63(d)) (18 completed) (PK(S) (Peleting application, 33(b). (PR 1.76 (Continuation) (Continuation) (Continuation) (Continuation) (Continuation) | n-in-part (C disclosure ompanyin | CIP) | X X X Of prior of prior onuation | 37 CFR (when the second | 3.73(linere is an interest in a second content (ID and the second content (ID and the second content in a | b) States an assistant of the san assistant of the | ment gnee) ocument e 1449 int ard (MPE r itemizer ity Document of orm PT form PT form and ard ch an oat | th or declaration is supplied is hereby incorporated by |
| | 19. COI | RRESPO | NDEN | ICE / | ADDRE | SS | | | |
| X Customer Number or Bar Code Lai | bel . | | 0474 | 13 | | | | ιX | Correspondence address below |
| Name MARSHALL, GEF Nabeela R. McMi | llian | | LP. | | | | | | |
| Address 233 S. Wacker Di Sears Tower | rive, Suite 63 | 00 | | | | | | ····· | |
| City Chicago | | ate | IL | | | | Zip | | 50606-6357 |
| Country US | Те | lephone | (312 | 2) 47 | 4-630 | 00 | | Fax | (312) 474-0448 |
| Name (Print/Type) Nabeela R | . McMillian | | | Regis | tration \ | lo. (At | torney/A | gent) | 43,363 |
| Signature Do Cov | Keeli. | | | | | | Da | te Ju | uly 14, 2003 |
| I hereby certify that this correspondenc | e is being deposi | ted with the | ne U.S | . Pos | tal Serv | rice/as | s Expres | ss Mail, A | Airbill No. EV 323 771 513 |

1450, on the date shown below.

Dated: July 14, 2003

_ (Richard Zimmermann)



PTO/SB/17 (01-03)
Approved for use through 04/30/2003. OMB 0651-0032
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| FEE | ETR | AN | SMI | TT | AL |
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| | for | FY | 200 | 3 | |

Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 750.00

PTO

| Compl t if Known | | | |
|----------------------|--------------------------|--|--|
| Application Number | Not Yet Assigned | | |
| Filing Date | July 14, 2003 (herewith) | | |
| First Named Inventor | Dong et al. | | |
| Examiner Name | Not Yet Assigned | | |
| Group Art Unit | Not Yet Assigned | | |
| Attorney Docket No. | 29936/39473 | | |

| METHOD OF PAYMENT (check all that apply) | FEE CALCULATION (continued) | | | | | |
|---|-----------------------------|--------------------|-------------|-------------|---|-------------|
| X Check Credit Money Other None | 3. A | 3. ADDITIONAL FEES | | | | |
| Deposit Account | | | | | | |
| Deposit | Large | Entity | Small | Entity | _ | |
| Account 13-2855 | Fee Code | Fee (\$) | Fee Code | Fee (\$) | Fee Description | Fee Paid |
| Number | Code | (4) | Code | (Ψ) | | 1 |
| Deposit Account MARSHALL, GERSTEIN & | 1051 | 130 | 2051 | 65 | Surcharge – late filing fee or oath | |
| Name BORUN LLP The Commissioner is hereby authorized to: (check all that apply) | 1052 | 50 | 2052 | 25 | Surcharge – late provisional filing fee or cover sheet. | |
| | 4050 | 400 | 1050 | 400 | • | |
| Charge fee(s) indicated below X Credit any overpayments | 1053 | 130 | 1053 | 130 | Non-English specification | |
| Charge any additional fee(s) during the pendency of this application | 1812 | 2,520 | 1812 | 2,520 | For filing a request for ex parte reexamination | |
| Fee not enclosed. Please forward Notice to File Missing Parts. | 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action | |
| | 1805 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action | |
| FEE CALCULATION | 1251 | 110 | 2251 | 55 | Extension for reply within first month | |
| 1. BASIC FILING FEE | 1252 | 410 | 2252 | 205 | Extension for reply within second month | |
| Large Entity Small Entity | 1253 | 930 | 2253 | 465 | Extension for reply within third month | |
| Fee Fee Fee Fee <u>Fee Description</u> Fee Paid | 1254 | 1,450 | 2254 | 725 | Extension for reply within fourth month | |
| 1001 750 2001 375 Utility filing fee 750.00 | 1255 | 1,970 | 2255 | 985 | Extension for reply within fifth month | |
| 4002 330 2002 165 Design filing fee | 1401 | 320 | 2401 | 160 | Notice of Appeal | |
| 1003 520 2003 260 Plant filing fee | 1402 | 320 | 2402 | 160 | Filing a brief in support of an appeal | |
| 1004 750 2004 375 Reissue filing fee | 1403 | 280 | 2403 | 140 | Request for oral hearing | |
| 1005 160 2005 80 Provisional filing fee | 1451 | 1,510 | 1451 | | Petition to institute a public use proceeding | |
| SUBTOTAL (1) (\$) 750.00 | 1452 | 110 | 2452 | 55 | Petition to revive – unavoidable | |
| 3331377.2(1) | 1453 | 1,300 | 2453 | 650 | Petition to revive - unintentional | |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE | 1501 | 1,300 | 2501 | 650 | Utility issue fee (or reissue) | |
| Extra Fee from Claims below Fee Paid | 1502 | 470 | 2502 | 235 | Design issue fee | |
| Total Claims 12 - 20 = 0 x \$ 18.00 = 0.00 | 1503 | 630 | 2503 | 315 | Plant issue fee | |
| Independent 1 - 3 = 0 x \$ 84.00 = 0.00 | 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | |
| Multiple Dependent \$ 280.00 = 0.00 | 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17(q) | |
| Large Entity Small Entity | 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt | |
| Fee Fee Fee Fee Fee Description | 8021 | 40 | 8021 | 40 | Recording each patent assignment per | |
| Code (\$) Code (\$) | 1809 | 750 | 2809 | 375 | property (times number of properties) Filing a submission after final rejection | |
| 1201 84 2201 42 Independent claims in excess of 3 | | | | | (37 CFR 1.129(a)) For each additional invention to be | |
| 1203 280 2203 140 Multiple dependent claim, if not paid | 1810 | 750 | 2810 | 375 | examined (37CFR 1.129(b)) | |
| 1204 84 2204 42 ** Relssue independent claims | 1801 | 750 | 2801 | 375 | Request for Continued Examination (RCE) | |
| over original patent 1205 18 2205 9 ** Reissue claims in excess of 20 | 1802 | 900 | 1802 | 900 | Request for expedited examination of a design application | |
| and over original patent | Other | fee (spe | cify) | | | |
| SUBTOTAL (2) (\$) 0.00 | *Red | uced by | Basic Fi | iling Fe | e Paid SUBTOTAL (3) (\$) | 0.00 |
| **or number previously paid, if greater; For Reissues, see above | | | | | , , | |
| CUDWITTED DV | | | | - | Complete (if applicable) | |

| 300111111111111111111111111111111111111 | | | | Complete (| т арричавто) |
|---|---------------------|--------------------------------------|--------|------------|----------------|
| Name (Print/Type) | Nabeela R McMillian | Registration No. (Attorney/Agent) | 43,363 | Telephone | (312) 474-6300 |
| Signature | Wederful. | | | Date | July 14, 2003 |
| | 1000 | | | | |

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|--|----------------------------|-------------------------------|-------------------------|
| US, in an envelope addressed to: Mail Stop Patent | Application, Commissione | for Patents, P.O. Box 1450 | , Alexandria, VA 22313- |
| 1450 on the data shows below | // // | H // | |
| Dated: July 14, 2003 | Signature: | h | (Richard Zimmermann) |

SHIN & KIM

Sheet No. 3

Date: June 26, 2003

INFORMATION SHEET

(Po030105HD)

Provisional Title: Method of manufacturing flash memory device

Corresponding Original Application:

Application No. : 2002-84331 (Patent)
Filing Date : December 26, 2002
Country : Republic of Korea

Assignment Date:

Assignee: (Applicant)

Hynix Semiconductor Inc.

San 136-1, Ami-Ri, Bubal-Uep, Ichon-Shi, Kyungki-Do,

Republic of Korea

Nationality: Republic of Korea

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Hyundai Sawon Apt. 102-606, 441-1,

Sadong-Ri, Daewol-Myun, Ichon-Shi, Kyungki-Do

Nationality: Republic of Korea

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Total Number of Pages in This Submission

PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number Not Yet Assigned Filing Date July 14, 2003 (herewith) **First Named Inventor** Dong et al. Group Art Unit Not Yet Assigned **Examiner Name** Not Yet Assigned 29936/39473 Attorney Docket Number

| ENCLOSURES (check all that apply) | | | | | |
|--|--|---|---|--|--|
| X Fee Transm | ittal Form | Assignment Papers (for an Application) | After Allowance Communication to Group | | |
| X Fee A | ttached | X Drawing(s) | Appeal Communication to Board of Appeals and Interferences | | |
| Amendment | /Reply | Licensing-related Papers | Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) | | |
| After F | Final | Petition | Proprietary Information | | |
| Affida | vits/declaration(s) | Petition to Convert to a Provisional Application | Status Letter | | |
| Extension o | f Time Request | Power of Attorney, Revocation Change of Correspondence Address | X Other Enclosure(s) (please identify below) | | |
| Express Abandonment Request | | Terminal Disclaimer | Return receipt postcard; Declaration for Patent Application | | |
| Information Disclosure Statement | | Request for Refund | and Power of Attorney | | |
| X Certified Copy of Priority Document(s) | | CD, Number of CD(s) | | | |
| Response to incomplete | o Missing Parts/ Application | Remarks | | | |
| | onse to Missing Parts 37 CFR 1.52 or 1.53 | | | | |
| | | | | | |
| | **** | | | | |
| | SIGNA | TURE OF APPLICANT, ATTORNEY, OR A | AGENT | | |
| Firm <i>or</i> Individual Name | Naheda B. McMillian - 43 363 | | | | |
| Signature | Walnute | li. | | | |
| Date | July 14, 2003 | | | | |

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|---|---------------|-------------------|---------------------------|-------------------|
| US, in an envelope addressed to: Mail Stop Patent Applicati | ion, Comphi | sioner for Patent | s, P.O. Box 1450, Alexa | andria, VA 22313- |
| I hereby certify that this correspondence is being deposited wit US, in an envelope addressed to: Mail Stop Patent Applicati 1450, on the date shown below. | 4/1 | // | | |

Dated: July 11, 2003

Signature: Kichaul JummllMM (Richard Zimmermann)